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antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Mitofusin-2 MFN2 Antibody

Catalog Number: A00461

About MFN2

Mitofusin 2 (MFN2) and the related protein MFN1 are mitochondrial membrane GTPase proteins that play a central role in mitochondrial metabolism and may be associated with obesity and/or apoptosis processes (1,2). MFN2 is ubiquitously expressed, and found in both the ER and outer mitochondrial membrane. MFN2 has two key domains: a coiled coil region that mediates MFN2 binding and a GTPase domain that likely plays a role in fusion (3,4). Both domains are essential for embryonic development and may play a role in the pathobiology of obesity. Overexpression of MFN2 causes mitochondrial dysfunction and cell death (5).

Overview

Product Name	Anti-Mitofusin-2 MFN2 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Mitofusin-2 MFN2 Antibody (Catalog # A00461). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal Clone: SK7
Formulation	MFN2 antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	MFN2 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.
Host	Rabbit
Uniprot ID	O95140

Technical Details

Immunogen	MFN2 antibody was raised against a 17 amino acid peptide near the center of human MFN2. The immunogen is located within amino acids 250 - 300 of MFN2.
Predicted Reactive Species	Bovine, Pig
Cross Reactivity	MFN2 antibody is human, mouse and rat reactive. At least three isoforms of MFN2 are known to exist. MFN2 antibody is predicted to not cross-react with MFN1.
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	MFN2 antibody is affinity chromatography purified via peptide column.

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Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: MFN2 antibody can be used for detection of MFN2 by Western blot at 1 - 2 ug/ml. Antibody can also be used for Immunohistochemistry at 5 ug/mL. For Immunoflorescence start at 20 ug/mL. Antibody validated: Western Blot in human samples; Immunohistochemistry in mouse and rat samples and Immunofluorescence in mouse and rat samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

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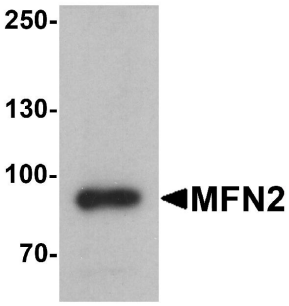
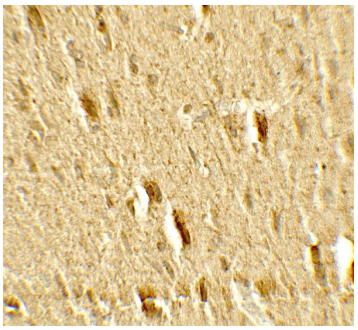
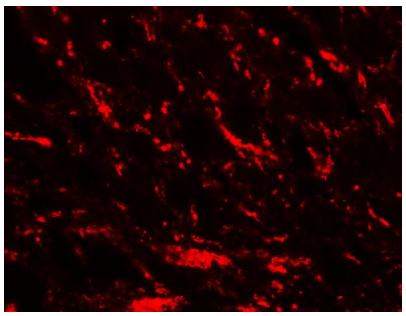
Anti-Mitofusin-2 MFN2 Antibody (A00461) Images



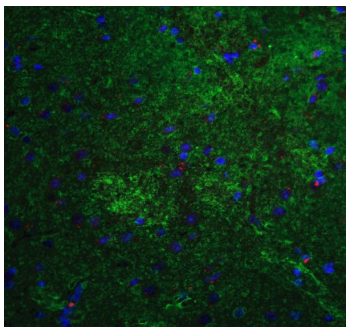
Western blot analysis of MFN2 in human brain tissue lysate with MFN2 antibody at 1 ug/ml.



Immunohistochemistry of MFN2 in rat brain tissue with MFN2 antibody at 5 ug/mL.



Immunofluorescence of MFN2 in rat brain tissue with MFN2 antibody at 20 ug/mL.



Immunofluorescence of MFN2 in mouse brain tissue with MFN2 antibody at 20 ug/mL.

Green: MFN2 antibody (A00461)
Red: Phylloidin staining
Blue: DAPI staining

Immunohistochemistry of MFN2 in mouse brain tissue with MFN2 antibody at 5 ug/mL.

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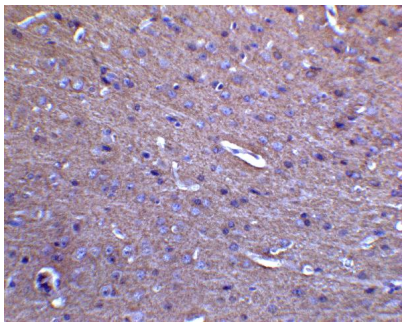

1 Publications Citing This Product

1. PubMed ID: 32884840, Jiao Z,Wu Y,Qu S.Fenpropathrin induces degeneration of dopaminergic neurons via disruption of the mitochondrial quality control system.Cell Death Discov.2020 Aug 25;6:78.doi:10.1038/s41420-020-00313-y.PMID:32884840;PMCID:PMC7447795.

Visit bosterbio.com/anti-mitofusin-2-mfn2-antibody-a00461-boster.html to see all 1 publications.

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